



Form PTO-1449 (Modified)

**INFORMATION DISCLOSURE
CITATION IN AN APPLICATION**

Sheet 1 of 10

Application No.	10/008,463
Filing Date	November 9, 2001
First Named Inventor	Neff, et al.
Group Art Unit	2633
Examiner Name	Dalzid E. Singh
Attorney Docket No.	71703/7293

U.S. PATENT DOCUMENTS

EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(a)(2)(ii)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	FILING DATE (MM-DD-YYYY)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
DS	AA	x	09/823,175		Willebrand et al.	03-15-2005	—	—	—
	AB	x	3488586		Watrous et al.	01-06-1970	—	—	—
	AC	x	3967899		O'Meara	07-06-1976	—	—	—
	AD	x	4060769		Mallozzi et al.	11-29-1977	—	—	—
	AE	x	4330870		Arends	05-18-1982	—	—	—
	AF	x	4428647		Sprague et al.	01-31-1984	—	—	—
	AG	x	4630254		Tseng	12-16-1986	—	—	—
	AH	x	4639586		Fender et al.	01-27-1987	—	—	—
	AI	x	4689482		Horikawa et al.	08-25-1987	—	—	—
	AJ	x	4717913		Elger	01-05-1988	—	—	—
	AK	x	4757268		Abrams et al.	07-12-1988	—	—	—
	AL	x	4761059		Yeh et al.	08-02-1988	—	—	—
	AM	x	4773063		Hunsperger	09-20-1988	—	—	—
	AN	x	4794345		Linford et al.	12-27-1988	—	—	—
	AO	x	4807222		Amitay	02-21-1989	—	—	—
	AP	x	4823357		Casey	04-18-1989	—	—	—
	AQ	x	4826269		Streifer et al.	05-02-1989	—	—	—
	AR	x	4904993		Sato	02-27-1990	—	—	—
	AS	x	4916460		Powell	04-10-1990	—	—	—
DS	AT	x	4922502		Unterrahrer et al.	05-01-1990	—	—	—

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DS	AU	x	4932775		Wissman et al.	06-12-1990			
	AV	x	4975926		Knapp	12-04-1990			
	AW	x	5005937		Aida et al.	04-09-1991			
	AX	x	5019768		Criswell et al.	05-28-1991			
	AY	x	5034997		Iwasaki	07-23-1991			
	AZ	x	5068916		Harrison et al.	11-26-1991			
	BA	x	5083874		Aida et al.	01-28-1992			
	BB	x	5142400		Solinsky	08-25-1992			
	BC	x	5185758		Fan et al.	02-09-1993			
	BD	x	5185814		Healey	02-09-1993			
	BE	x	5200631		Austin et al.	04-06-1993			
	BF	x	5210631		Huber et al.	05-11-1993			
	BG	x	5218356		Knapp	06-08-1993			
	BH	x	5218467		Ross et al.	06-08-1993			
	BI	x	5221983		Wagner	06-22-1993			
	BJ	x	5223781		Criswell et al.	06-29-93			
	BK	x	5227906		Tokumitsu	07-13-1993			
	BL	x	5247381		Olmstead et al.	09-21-1993			
	BM	x	5267010		Kremer et al.	11-30-1993			
	BN	x	5280184		Jokerst, et al.	01-18-1994			
DS	BO	x	5301054		Huber et al.	04-05-1994			

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DS	BP	x	5311535		Karpinski	05-10-1994			
I	BQ	x	5321718		Waarts, et al.	06-14-1994			
	BR	x	5329576		Handforth	07-12-1994			
	BS	x	5331449		Huber et al.	07-19-1994			
	BT	x	5353294		Shigeno	10-04-1994			
	BU	x	5359446		Johnson et al.	10-25-1994			
	BV	x	5371734		Fischer	12-06-1994			
	BW	x	5377219		Geiger	12-27-1994			
	BX	x	5384652		Allen et al.	01-24-1995			
	BY	x	5394489		Koch	02-28-1995			
	BZ	x	5400166		Huber	03-21-1995			
	CA	x	5410147		Riza et al.	04-25-1995			
	CB	x	5416861		Koh, et al.	05-16-1995			
	CC	x	5416864		Cassidy et al.	05-16-1995			
	CD	x	5443227		Hsu	08-22-1995			
	CE	x	5452124		Baker	09-19-1995			
	CF	x	5457561		Taneya et al.	10-10-1995			
	CG	x	5457562		Tremblay	10-10-1995			
	CH	x	5465170		Arimoto	11-07-1995			
	CI	x	5475520		Wissinger	12-12-1995			
DS	CJ	x	5949563		Takada	09-07-1999			

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DS	CK	x	5949564		Wake	09-07-1999			
	CL	x	5966229		Dodley et al.	10-12-1999			
	CM	x	5978118		Flaherty	11-02-1999			
	CN	x	5983068		Tomich et al.	11-09-1999			
	CO	x	5995253		Flaherty	11-30-1999			
	CP	x	6014236		Flaherty	01-11-2000			
	CQ	x	6016212		Durant et al.	01-18-2000			
	CR	x	6043918		Bozzay et al.	03-28-2000			
	CS	x	6049593		Acampora	04-11-2000			
	CT	x	6104513		Bloom	08-15-2000			
	CU	x	6115157		Barnard, et al.	09-05-2000			
	CV	x	6122084		Britz et al.	09-19-2000			
	CW	x	6141128		Korevaar, et al.	10-31-2000			
	CX	x	6219363		Fix et al.	04-17-2001			
	CY	x	6259552		Botti et al.	07-10-2001			
	CZ	x	6268944		Szapiel	07-31-2001			
	DA	x	6272271		Wojnarowski, et al.	08-07-2001			
	DB	x	6285481		Palmer	09-04-2001			
	DC	x	6288813		Kirkpatrick, et al.	09-11-2001			
DS	DD	x	6301037		Fischer, et al.	10-09-2001			

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DS	DE	x	6323980		Bloom	11-27-2001			
	DF	x	6330104		Kim et al.	12-11-2001			
	DG	x	6347174		Onishi et al.	02-12-2002			
	DH	x	6348986		Doucet, et al.	02-19-2002			
	DI	x	6396612		Bjorndahl	05-28-2002			
	DJ	x	6398425		Williams, et al.	06-04-2002			
	DK	x	6411414		Abate, et al.	06-25-2002			
	DL	x	6452700		Mays, Jr.	09-17-2002			
	DM	x	6462847		Willebrand	10-08-2002			
	DN	x	6493121		Althaus	12-10-2002			
	DO	x	6509992		Goodwill	01-21-2003			
	DP	x	6532087		Ransford et al.	03-11-2003			
	DQ	x	6583904		Mahlab et al.	06-24-2003			
	DR	x	6798795		Yoo	09-28-2004			
	DS	x	09/482,782		Willebrand et al.	07-13-2004			
	DT	x	09/849,613		Willebrand et al.	03-15-2005			
	DU	x	2002/0005972		Bloom, et al.	01-17-2002			
	DV	x	2002/0012139		Willebrand, et al.	01-31-2002			
DS	DW	x	2002/0048066		Antoniados et al.	04-25-2002			

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DS	DX	x	2002/0051269		Margalit et al.	05-02-2002			
	DY	x	2002/0054411		Heminger et al.	05-09-2002			
	DZ	x	2002/0054413		Shivnan	05-09-2002			
	EA	x	2002/0075542		Kumar et al.	06-20-2002			
	EB	x	2002/0122230		Izadpanah, et al.	09-05-2002			
	EC	x	2002/0122232		Doucet, et al.	09-05-2002			
	ED	x	2002/0141020		Doucet, et al.	10-03-2002			
	EE	x	2002/0149811		Willebrand	05-03-2005			
	EF	x	2002/0167697		Willebrand	11-14-2002			
	EG	x	2002/0171896		Clark, et al.	11-21-2002			
DS	EH	x	RE35736		Powell	02-24-1998			

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			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
DS	EI		GB	2 228 385	A	8/22/1990			X	
	EJ		DE	4433896	C	9/11/1995			X	
	EK		EP	0 378 148	B1	4/10/1996			X	
	EL		EP	0 513 993	A2	11/19/1992			X	
DS	EM		GB	2 221 810	A	2/14/1990			X	

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			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
DS	EN		GB	2 257 321	A	1/6/1993			X	
	EO		JP	S63-215125		7/7/1988			X	
	EP		WO	00/08783		2/17/2000			X	
	EQ		WO	01/52450	A2	7/19/2001			X	
DS	ER		WO	98/32250		7/23/1998			X	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

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DS	ES		A. BELMONTE, et al.; "Performance of a Multiple-Aperture Optical System"; Society of Photo-Optical Instrumentation Engineers, vol. 2699; 1996; pp. 316-326.
	ET		A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; Applied Optics, Vol. 35, No. 8; pp. 1296-1308 (March 10, 1996).
	EU		A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; GLOBECOM '87; IEEE; pp. 1459-1467, (1987).
	EV		A. S. ACAMPORA; "The Scalable Lightwave Network"; IEEE Communications Magazine; pp. 36-42 (December 1994).
	EW		C. BRACKETT et al; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; Journal of Lightwave Technology, Vol. 11, No. 5/6; pp. 736-753, (May/June 1993).
	EX		C. M. STICKLEY et al.; Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver; 18.sup.th International Laser Radar Conference; 1996; pp. 247-250.
	EY		CHURNSIDE, James H.; Aperture Averaging Of Optical Scintillations in the Turbulent Atmosphere; Applied Optics; May 20, 1991; pp. 1982-1994; Vol. 30, No. 15
	EZ		D. L. FRIED; "Aperture Averaging of Scintillation"; Journal of the Optical Society of America, Vol. 57, No. 2; pp. 169-175 (February 1967).
DS	FA		E. KOREVAAR et al.; "Design of Satellite Terminal for BMDO Lasercom Technology Demonstration"; Society of Photo-Optical Instrumentation Engineers, Vol. 2381; pp. 60-71 (February 7-8, 1995).

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DS	FB		E. KOREVAAR et al; "Status of BMDO/IST Lasercom Advanced Technology Demonstration"; Society of Photo-Optical Instrumentation Engineers, Vol. 2123; pp. 96-107 (1994).
	FC		E. KOREVAAR et al; "Status of SDIO/IS&T Lasercom Testbed Program"; Society of Photo-Optical Instrumentation Engineers, Vol. 1866; pp. 116-127 (January 20-21, 1993).
	FD		F. G. OMENETTO et al.; "Shaping, Propagation and Characterization of Ultrafast Pulses in Optical Fibers"; Applied Physics B, Lasers and Optics; pp. 1-6; (2000).
	FE		G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km Free-Space Optical Communications Link: Availability and Scintillation Performance"; Part of the SPIE Conference on Optical Wireless Communications II; SPIE; Vol. 3850; pp. 11-19 (September 1999).
	FF		G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link Over 4.4 km"; Free Space Laser Communication Technologies XII; Proceedings of SPIE; Vol. 3932, pp. 16-20; (2000).
	FG		J. GRAVES et al.; "Advancing Free-Space Optical Communications With Adaptive Optics"; Lightwave; Sep. 2002; pp. 105, 106 and 113.
	FH		GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; Computer; IEEE; pp. 69-75; (February 1998).
	FI		HAND, A. J.; "Laser Communications Comes out of the Fog"; Photonics Technology World; Photonics Spectra; http://www.photonics.com/spectra/tech/XQ/ASP/techid.588/QX/read.htm ; May 1999; 2 pages.
	FJ		Hungarian Patent Office, Search Report for Hungarian National Phase of PCT/US00/35198, which claims priority to U.S. App. 09/482,782; dated Jan. 15, 2003; pp. 1-3.
	FK		I. I. KIM et al.; Scintillation Reduction Using Multiple Transmitters; Society of Photo-Optical Instrumentation Engineers, vol. 2990; 1997; pp. 102-113.
	FL		J. SCHUSTER et al.; "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/Slant Gimbal"; Society of Photo-Optical Instrumentation Engineers, Vol. 2699; pp. 227-239 (January 30-31, 1996).
	FM		J. SHAMIR et al.; "Diversity Methods for Fading Control"; Applied Optics; vol. 27, No. 8; Apr. 15, 1988; pp. 1389-1391.
	FN		K. E. WILSON et al.; "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment between Table Mountain and the ETS-VI Satellite", Society of Photo-Optical Instrumentation Engineers, Vol. 2699; pp. 121-132 (1996).
DS	FO		K. H. KUDIELKA et al.; "Experimental Verification of an Adaptive Optical Multi-Aperature Receive Antenna for Laser Space Communications"; Society of Photo-Optical Instrumentation Engineers, vol. 2123; 1994; pp. 478-486.

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DS	FP		K. KIMURA et al.; "Global Satellite Communication Network using Double-Layered Inclined Orbit Constellation with Optical Inter-Satellite Links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; SPIE; vol. 2699; 1996; pp. 12-23.
	FQ		K. KIMURA et al.; "Satellite Constellation of Low Earth Orbit (LEO) Satellite Global Communication Network using Optical Inter-Satellite Links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; SPIE; vol. 2381; 1995; pp. 48-59.
	FR		KUBE; "Renaissance Eines Alten Konzepts"; Nachrichten Elektronik und Telematick; Vol. 49; No. 5; May 1995; pp. 15, 16 and 18. (English translation provided.)
	FS		Lightpointe Communications, Inc.; "Complex Networking Connectivity Example: Allianz Insurance"; p. 1; (1995).
DS	FT		NASA Jet Propulsion Laboratory; "Multiple-Beam Transmission for Optical Communication"; http://www.nasatech.com/Briefs/Nov98/NPO20384.html ; Oct. 26, 2001; pp.1-2.
	FU		"OPTICAL LINKS: Network Connection Directly Through the Atmosphere"; Communication by Light (CBL), Mar. 1995; 8 pages.
DS	FV		P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; Free-Space Laser Communication Technologies XII; Proceedings of SPIE; Vol. 3932, pp. 2-14; (2000).
	FW		P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 mm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; Part of the SPIE Conference on Optical Wireless Communications II; SPIE; Vol. 3850; pp. 2-10; (September 1999).
	FX		PCT International Search Authority; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US02/10075 which claims priority to U.S. Application No. 09/835,866; mailed Jul. 30, 2002; (4 pages).
	FY		PCT International Search Authority; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed Feb. 6, 2002; (7 pages).
	FZ		PCT International Preliminary Examining Authority; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed Apr. 29, 2002; (13 pages).
DS	GA		PCT International Search Authority; "Notification of Transmittal of the International Search Report" and "International Search Report" for International Application No. PCT/US01/14547 which corresponds to U.S. Appl. No. 09/849,613; mailed Apr. 3, 2003; (7 pages).

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DS	GB		PCT International Preliminary Examining Authority; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US01/14547 which corresponds to U.S. Appl. No. 09/849,613; mailed Dec. 5, 2003; (6 pages).
A	GC		PCT International Bureau; "PCT International Search Report" for International Application No. PCT/US02/13473 which corresponds to U.S. Application No. 09/834,093; mailed Jul. 10, 2002; (4 pages).
	GD		R. PAIELLA et al.; "Generation and Detection of High-Speed Pulses of Mid-Infrared Radiation with Intersubband Semiconductor Lasers and Detectors"; IEEE Transactions on Photonics Technology Letters; Vol. 12, No. 7; pp. 780-782; (July 2000).
	GE		S. SCHILLER et al.; "Theory of an Optical Parametric Oscillator with Resonant Pump and Signal"; J. Optical Society of America; Vol. 16, No. 9; pp. 1512-1524; (September 1999).
	GF		S. HOLLUNG et al.; A Bi-Directional Quasi-Optical Lens Amplifier; IEEE Transactions on Microwave Theory and Techniques; vol. 45, No. 12; Dec. 1997; pp. 2352-2357.
	GG		W. M. BRUNO et al.; "Diode Laser Spatial Diversity Transmitter"; Society of Photo-Optical Instrumentation Engineers, Vol. 1044; pp. 187-194 (1989).
DS	GH		Y. YASHKIR et al.; "Passively Q-Switched 1.5 -μm Intracavity Optical Parametric Oscillator"; Applied Optics, Vol. 38, No. 12; pp. 2554-2559; (April 1999).

Examiner Signature

Dalzid Singh

Date Considered

09/20/05

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.